



BRAINWARE UNIVERSITY
SCHOOL OF COMPUTATIONAL & APPLIED SCIENCES
DEPARTMENT OF COMPUTATIONAL SCIENCES
Bachelor of Computer Applications 2020
(As per UGC CBCS Template)

SEMESTER – I

Course Code	Course Name	Course Type	L – T – P	Credits	Total Marks
HU101	English Communication	AECC-1	3 – 0 – 0	3	100
HU191	English Communication Lab	AECC-1	0 – 0 – 2	1	100
BCAC101	Problem Solving using C	CC-1	4 – 0 – 0	4	100
BCAC191	Problem Solving using C Lab	CC-1	0 – 0 – 4	2	100
BCAC102	Computer Application and Hardware	CC-2	4 – 0 – 0	4	100
BCAC192	Computer Application and Hardware Lab	CC-2	0 – 0 – 4	2	100
GE**	Generic Elective-1 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE-1	4-0-0/5-0-0	4/5	200/100
GE**	Generic Elective -1 (Practical/Tutorial)	GE-1	0-0-4/0-1-0	2/1	
	Total			22	800/700

SEMESTER – II

Course Code	Course Name	Course Type	L – T – P	Credits	Total Marks
ENV201	Environmental Studies	AECC-2	3 – 1 – 0	4	100
BCAC201	Data Structures	CC-3	4 – 0 – 0	4	100
BCAC291	Data Structures Lab	CC-3	0 – 0 – 4	2	100
BCAC202	Computer Organization and Architecture	CC-4	4 – 0 – 0	4	100
BCAC292	Computer Organization and Architecture Lab	CC-4	0 – 0 – 4	2	100
GE**	Generic Elective-2 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE-2	4-0-0/5-0-0	4/5	200/100
GE**	Generic Elective -2 (Practical/Tutorial)	GE-2	0-0-4/0-1-0	2/1	
	Total			22	700/600

SEMESTER – III



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Course Code	Course Name	Course Type	L – T – P	Credits	Total Marks
BCAC301	Database Management System	CC-5	4 – 0 – 0	4	100
BCAC391	Database Management System Lab	CC-5	0 – 0 – 4	2	100
BCAC302	Operating System	CC-6	4 – 0 – 0	4	100
BCAC392	Operating System Lab	CC-6	0 – 0 – 4	2	100
BCAC303	Object Oriented Programming with JAVA	CC-7	4 – 0 – 0	4	100
BCAC393	JAVA Lab	CC-7	0 – 0 – 4	2	100
BCAS391	Web Technology Lab	SEC-1	2 – 0 – 4	4	100
GE**	Generic Elective-3 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE-3	4-0-0/5-0-0	4/5	200/100
GE**	Generic Elective -3 (Practical/Tutorial)	GE-3	0-0-4/0-1-0	2/1	
Total				28	900/800

SEMESTER – IV

Course Code	Course Name	Course Type	L – T – P	Credits	Total Marks
BCAC401	Computer Networks	CC-8	4 – 0 – 0	4	100
BCAC491	Computer Networks Lab	CC-8	0 – 0 – 4	2	100
BCAC402	Introduction to ERP	CC-9	5 – 1 – 0	6	100
BCAC403	Introduction to Financial Accounting	CC-10	4 – 0 – 0	4	100
BCAC493	Financial Accounting Lab	CC-10	0 – 0 – 4	2	100
BCAS491	C# .Net Lab	SEC-2	2 – 0 – 4	4	100
GE**	Generic Elective-4 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE-4	4-0-0/5-0-0	4/5	200/100
GE**	Generic Elective -4 (Practical/Tutorial)	GE-4	0-0-4/0-1-0	2/1	
Total				28	800/700

SEMESTER – V



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Course Code	Course Name	Course Type	L – T – P	Credits	Total Marks
BCAC501	Internet Technologies	CC-11	4 – 0 – 0	4	100
BCAC591	Internet Technologies Lab	CC-11	0 – 0 – 4	2	100
BCAC502	Introduction to Multimedia	CC-12	4 – 0 – 0	4	100
BCAC592	Multimedia Lab	CC-12	0 – 0 – 4	2	100
BCAD501	A. E-Commerce B. Image Processing	DSEC-1	4 – 0 – 0	4	100
BCAD591	A. E-Commerce Lab B. Image Processing Lab	DSEC-1	0 – 0 – 4	2	100
BCAD502	A. Computer Graphics B. Artificial Intelligence	DSEC-2	4 – 0 – 0	4	100
BCAD592	A. Computer Graphics Lab B. Artificial Intelligence Lab	DSEC-2	0 – 0 – 4	2	100
	Total			24	800

SEMESTER – VI

Course Code	Course Name	Course Type	L – T – P	Credits	Total Marks
BCAC601	Software Engineering	CC-13	4 – 0 – 0	4	100
BCAC691	Software Engineering Lab	CC-13	0 – 0 – 4	2	100
BCAC602	PHP and MySQL Programming	CC-14	4 – 0 – 0	4	100
BCAC692	PHP and MySQL Programming Lab	CC-14	0 – 0 – 4	2	100
BCAD601	A. Mobile Application Development B. Introduction to Data Sciences	DSEC-3	4 – 0 – 0	4	100
BCAD691	A. Mobile Application Development Lab B. Introduction to Data Sciences Lab	DSEC-3	0 – 0 – 4	2	100
BCAD692	Project	DSEC-4	0 – 0 – 12	6	100
	Total			24	700

Total Credits: 148
Total Marks: 4300-4700